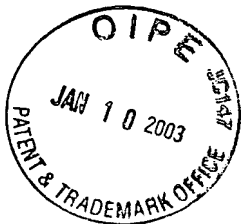


#18

SEQUENCE LISTING



<110> SHORT, JAY M.
DJAVAKHISHVILI, TSOTNE D.
FREY, GERHARD J.

<120> EXONUCLEASE-MEDIATED NUCLEIC ACID REASSEMBLY IN
DIRECTED EVOLUTION

<130> DIV-1460-21

<140> 10/029,221
<141> 2001-12-21

<150> 60/008,311
<151> 1995-12-07

<150> 60/008,316
<151> 1995-12-07

<160> 13

<170> PatentIn Ver. 2.1

<210> 1
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Illustrative
restriction enzyme recognition site

<220>
<221> modified_base
<222> (7)..(22)
<223> a, t, c or g; this range may encompass 14 or 16 nucleotides

<400> 1
ctgaagnnnn nnnnnnnnnn nn 22

<210> 2
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Linker peptide

<400> 2
Gly Gly Gly Gly Ser
1 5

<210> 3
<211> 15

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<220>  
<221> modified base
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<222> (21)..(120)
 <223> a, t, c or g; this range may encompass 1-100 nucleotides

<220>
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 <222> (124)..(223)
 <223> a, t, c or g; this range may encompass 0-100 nucleotides

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 atgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnn 223

<210> 7
 <211> 215
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Formula
 sequence

<220>
 <221> modified_base
 <222> (1)..(10)
 <223> a, t, c or g; this range may encompass 1-10 nucleotides

<220>
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 <222> (16)..(115)
 <223> a, t, c or g; this range may encompass 1-100 nucleotides

<220>
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 <222> (116)..(215)
 <223> a, t, c or g; this range may encompass 0-100 nucleotides

<400> 7
 nnnnnnnnnn aagggnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnn 215

<210> 8
 <211> 123
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<220>
 <221> modified_base

<222> (24)..(123)

<223> a, t, c or g; this range may encompass 10-100 nucleotides

<400> 8

ctagaagaga ggagaaaacc atgnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnn 123

<210> 9

<211> 121

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<220>

<221> modified_base

<222> (22)..(121)

<223> a, t, c or g; this range may encompass 10-100 nucleotides

<400> 9

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
n 121

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 10

ctagaaggga ggagaaaacc atg 23

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 11

gatcaaaggc ggcctgcag g 21

<210> 12

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 12

ctagaaggga ggagaattac atgaagcggc ttttagccc

39

<210> 13

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 13

agctaagggt caaggccgca cccgagg

27